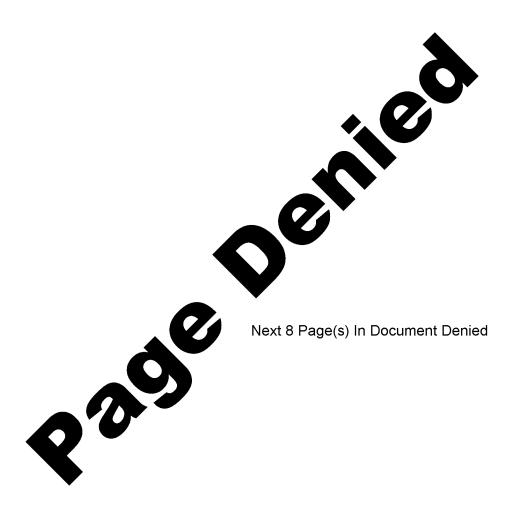
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•	uncı
,	25X1
COUNTRY:	USSR
SUBJECT:	Krasny - Aksay Krasny - Aksay Cultivating Machinery Plant in Rostov. 25X1
	The state of the s
	-
	_
	-
a •	
A. ipentific	ATION AND LOCATION OF THE PLANT.
	1. The cultivating machinery-plant was known as Krasnyy- 25X1
	Aksay.
	It was under
	the supervision of the Ministery of Heavy Industry.
	Located in Proletarskiy Rayon, the plant did not
aranET	have a street address for number. It pertained to
SECRET	Rostov region. There were no railroad lines nor

higways near the plant. The Gtreat car line No. 3

ran from Rostov to within 400 meters of the plant.
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25X1

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•	,			2 : 25X1
		-		
В′•	Descr	iption	of the Plant.	25X′
		·		
		2.	The plant consisted of 11 buildings constructed	
			during the Tsarist period. It was surrounded by a	٦
			wooden fence three meters high	25X
			There was one entrance. It	25)
			had no recently constructed buildings	
o.	Descr:	iption	and Use of Each Building.	
		1.	The plant buildings, in general, had the following	
				
			characteristics: They were rectangular, one-story,	
				25X
			characteristics: They were rectangular, one-story,	
		2.	characteristics: They were rectangular, one-story, concrete and brick structures, with metal roofs,	
		2.	characteristics: They were rectangular, one-story, concrete and brick structures, with metal roofs, and no basements.	25X 25X
		2.	characteristics: They were rectangular, one-story, concrete and brick structures, with metal roofs, and no basements. Building No. 1, the state house, is which two guards	25X
		2.	characteristics: They were rectangular, one-story, concrete and brick structures, with metal roofs, and no basements. Building No. 1, the structures, is which two guards controlled the entrance and exit of plant personnel The guards were blue uniforms and were armed with rifles. They inspected the identification cards	25X
		2.	characteristics: They were rectangular, one-story, concrete and brick structures, with metal roofs, and no basements. Building No. 1, the structures, is which two guards controlled the entrance and exit of plant personnel The guards wore blue uniforms and were armed with rifles. They inspected the identification cards of all plant personnel. There were eight guards	25X
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		2.	characteristics: They were rectangular, one-story, concrete and brick structures, with metal roofs, and no basements. Building No. 1, the schouse, is which two guards controlled the entrance and exit of plant personnel. The guards wore blue uniforms and were armed with rifles. They inspected the identification cards of all plant personnel. There were eight guards altogether. Building No. 2, the garage, was low a 8m x 6m. In the garage were five or six Russian made trucks for transporting machinery from the plant and for	25X
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		2.	characteristics: They were rectangular, one-story, concrete and brick structures, with metal roofs, and no basements. Building No. 1, the structures, in which two guards controlled the entrance and exit of plant personnel The guards wore blue uniforms and were armed with rifles. They inspected the identification cards of all plant personnel. There were eight guards altogether. Building No. 2, the garage, the lom x 8m x 6m. In the garage were five or six Ruestan made trucks for transporting machinery from the plant and for distribution of materials inside the area.	25X
		2.	concrete and brick structures, with metal roofs, and no basements. Building No. 1, the structures, in which two guards controlled the entrance and exit of plant personnel. The guards wore blue uniforms and were armed with rifles. They inspected the identification cards of all plant personnel. There were eight guards altogether. Building No. 2, the garage, was low a 8m x 6m. In the garage were five or six Russian made trucks for transporting machinery from the plant and for distribution of meterials inside the area. Building No. 3, the plant clinic, was for emergency	25X

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			25X1
:			
, ,	•		
		with dimensions 2m	1 x 0,5m; 25X1
	two presses known as pr	ess with dimensions 3m	
	and with a capacity of	30 MT. A total of 150) employees
	worked in the shop. Th	ey manufactured 1,000	to 1,100
	lapy in an eight-hour s	hift. There was no ma	rgin of
· · · · · · · · · · · · · · · · · · ·	error.		
12.	Building No. 11, the pa	int shop, where the le	py were
	varnished blue and blac	k in two metalic conta	
	the dimensions of which	were unknown	25X1
D. Products:	6		
	Cultivatingmachinery wi	th the trademark Kras	nyy-Aksay.
	There was no department		
	of military equipment.		
E. Raw materia	ls:		
	ls: Sheet iron, bronze, and	steel; wood for packi	ing; coal
		•	
E. <u>Raw materia</u>	Sheet iron, bronze, and	•	
1.	Sheet iron, bronze, and in small quantities for	the forging shop; and	Toil for
1.	Sheet iron, bronze, and in small quantities for greasing machinery.	the forging shop; and	Toil for
1.	Sheet iron, bronze, and in small quantities for greasing machinery. The plant was not dependent	the forging shop; and	l oil for ls imported 25X
1.	Sheet iron, bronze, and in small quantities for greasing machinery. The plant was not dependent	the forging shop; and adent upon raw material it was the	ls imported 25X trans-
1.	Sheet iron, bronze, and in small quantities for greasing machinery. The plant was not dependent from abroad.	the forging shop; and adent upon raw material it was the	ls imported 25X trans- 3 500m
1.	Sheet iron, bronze, and in small quantities for greasing machinery. The plant was not dependent from abroad. ported by barge down the	the forging shop; and adent upon raw material it was the	ls imported 25X trans-
2.	Sheet iron, bronze, and in small quantities for greasing machinery. The plant was not dependent from abroad. ported by barge down the from the plant.	the forging shop; and adent upon raw material it was the	ls imported 25X trans- 3 500m
2. F. Water Suppl	Sheet iron, bronze, and in small quantities for greasing machinery. The plant was not depend from abroad. ported by barge down the from the plant.	it was the forging shop; and adent upon raw material it was the it.	25X 25X 25X 25X1
2. F. Water Suppl	Sheet iron, bronze, and in small quantities for greasing machinery. The plant was not dependent from abroad. ported by barge down the from the plant. Y. There were no water tark	it was the forging shop; and adent upon raw material it was the item. The Don River, which was the orpumps for supply:	l oil for Ls imported 25X 1 500m 25X1
2. F. Water Suppl	Sheet iron, bronze, and in small quantities for greasing machinery. The plant was not depend from abroad. ported by barge down the from the plant. Y. There were no water tan water to the plant.	it was the forging shop; and it was the it w	a oil for 25X 25X 500m
2. F. Water Suppl	Sheet iron, bronze, and in small quantities for greasing machinery. The plant was not dependent from abroad. ported by barge down the from the plant. Y. There were no water tark	it was the forging shop; and it was the it w	l oil for ls imported 25X 1 500m 25X1
2. F. Water Suppl	Sheet iron, bronze, and in small quantities for greasing machinery. The plant was not depend from abroad. ported by barge down the from the plant. Y. There were no water tan water to the plant. piped from the Don Rive	it was the forging shop; and it was the it w	ing was-25X1
2. F. Water Suppl 1. G. Power Suppl	Sheet iron, bronze, and in small quantities for greasing machinery. The plant was not depend from abroad. ported by barge down the from the plant. Y. There were no water tan water to the plant. piped from the Don Rive	it was the forging shop; and adent upon raw material it was the it it was or pumps for supply it.	ing was-25X1 25X1 cover to
2. F. Water Suppl 1. G. Power Suppl	Sheet iron, bronze, and in small quantities for greasing machinery. The plant was not depend from abroad. ported by barge down the from the plant. Y. There were no water tan water to the plant. piped from the Don Rivery.	it was the forging shop; and adent upon raw material it was the it it was or pumps for supply it.	ing 25X1 25X1 25X1 25X1

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Same the state of the state of	SEGREI	5
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•		-
	the_plant	
		25X1
H. Packing.		
·	Wooden cases with dimensions Im x 0.3m x 0.	3m and
	others of 1/2m were used for the transport	ation of
	the machinery. On the outside of all the c	rates
	was marked Krasnyy-Aksay. During the packi	ng process,
1	a woman was in charge of supervising the nu	mber of
	parts for each crate. Two other women made	sure that
	the orders and shipments were camplete and	notified
	the attendant in charge of the respective d	ivision
	if there was a shortage or excess of parts	needed
	to complete the shipment.	25X1
		25 X 1
I. Transportati	On. The transport of the shipments was in truck	ra ownad
uom Para. II	by the plant	
Packing dept.	The trucks left the plant by a road	in the
	direction of Rostov. All the vehicles used	
	light trucks of three MT and some of 1.5 M	
	light trucks of three Mr. and some of 1.9 mb	
J. Production	ystem.	
1.	The sheet iron was brought into the plant of	on hand
	trucks and was taken to the milling shop.	The
	surface of the sheets was then reduced to a	ninimum
-	dimension which varied from three to seven	mm •
	From the milling shop the sheets were taken	n directly
	to the presses, where they were cut to the	appropriate
	measurements and given an oval shape.	
1	the production of machinery	25
,	was for land cultivation, mainly the cultivation	ration _{25Y1}
	of potatoes. SECRET	ZJX 1
<u> </u>	2CURCI	25X1
K. Plant Produc	etion Data.	
1.	The average production during 24 hours app	roximated
· ·		

l)		SECRET	25X1
	150 cultiv	vators.	25X1
· \$20-			
www.Workin	Conditions.	three work shift of	hours
		three work shifts of Gight in	
		r of workers in each shift in	
	shop	was: 40 to 4	25X
		The number of working ho	ura each
	week was n	ot more than 50 and not less	
		summer the workers were give	
	· ·	tion, depending on length of	•
	the plant.		``
		ly salary varied from 700 to	1,100 rubles.
			25.
	3. There was	only one emergency clinic at	
		n need of hospitalization wer	•
			•
	to a sanat	torium in Rostov.	
		orium in Rostov.	· · · · · · · · · · · · · · · · · · ·
1. Plant	ecurity.		
• Plants	Security.	plant there were no securit	y precautions.
• Plant	Jecurity. l. Within the Four or fi	plant there were no securit ive guards were situated at e	y precautions.
. Plant	l. Within the Four or fi	plant there were no securit ive guards were situated at e and maintained a constant wat	y precautions. each end of ich of the
I. Plant	l. Within the Four or fi theplant a perimeter.	plant there were no securit ive guards were situated at e and maintained a constant wat . For each shift there were	y precautions. each end of ich of the five or six
I. Plant	l. Within the Four or fi theplant a perimeter. guards, tw	plant there were no securit ive guards were situated at e and maintained a constant wat For each shift there were wo at the control gate and fo	y precautions. each end of ich of the five or six our dispersed
f. Plant	Four or fitheplant a perimeter. guards, two	plant there were no securit ive guards were situated at e and maintained a constant wat. For each shift there were wo at the control gate and for plant. They were armed wit	y precautions. each end of ich of the five or six our dispersed th rifles.
f. Plant	l. Within the Four or fi theplant a perimeter. guards, tw around the	plant there were no securitive guards were situated at eand maintained a constant wat. For each shift there were so at the control gate and for plant. They were armed with 20 guards in all, who were	y precautions. each end of ich of the five or six our dispersed th rifles.
1. Plant:	l. Within the Four or fi theplant a perimeter. guards, tw around the There were and wore b	plant there were no securit ive guards were situated at e and maintained a constant wat. For each shift there were wo at the control gate and for plant. They were armed with 20 guards in all, who were blue uniforms.	y precautions. each end of ich of the five or six our dispersed in rifles.
• Plant	l. Within the Four or fi theplant a perimeter. guards, tw around the There were and wore b	plant there were no securit ive guards were situated at e and maintained a constant wat. For each shift there were wo at the control gate and for plant. They were armed with 20 guards in all, who were blue uniforms.	y precautions. each end of ich of the five or six our dispersed th rifles. elant-employees the photograph
f. Plant	l. Within the Four or fi theplant a perimeter. guards, tw around the There were and wore b 2. A propusk, and number	plant there were no securitive guards were situated at eand maintained a constant wat. For each shift there were so at the control gate and for plant. They were armed with 20 guards in all, who were blue uniforms. In an identification card with a control card with the card with the control card with the control card with the control card with the control card with the	y precautions. each end of ich of the five or six our dispersed in rifles. olant-employees in the photograph eary in order
1. Plant	l. Within the Four or fi theplant a perimeter. guards, tw around the There were and wore b 2. A propusk, and number to enter t	plant there were no securitive guards were situated at eand maintained a constant wat. For each shift there were so at the control gate and for plant. They were armed with 20 guards in all, who were blue uniforms. In an identification card with a control card with a control card with the plant. There was only on	each end of sch of the five or six our dispersed th rifles. Clant-employees the photograph sary in order the general
f. Plant	l. Within the Four or fi theplant a perimeter. guards, tw around the There were and wore b 2. A propusk, and number to enter t entrance f	plant there were no securitive guards were situated at eand maintained a constant wat. For each shift there were wo at the control gate and for plant. They were armed with 20 guards in all, who were blue uniforms. In an identification card with r of the employee, was necess the plant. There was only on for all plant personnel. The	each end of the five or six our dispersed in rifles. The photograph cary in order ne general by had to show
1. Plant	l. Within the Four or fi theplant a perimeter. guards, tw around the There were and wore b 2. A propusk, and number to enter t entrance f	plant there were no securitive guards were situated at eand maintained a constant wat. For each shift there were so at the control gate and for plant. They were armed with 20 guards in all, who were blue uniforms. In an identification card with r of the employee, was necess the plant. There was only on for all plant personnel. The sk both on entering and leavi	each end of the five or six our dispersed in rifles. Lant-employees in order ne general by had to show ang the plant.
Plant:	l. Within the Four or fi theplant a perimeter. guards, tw around the There were and wore b 2. A propusk, and number to enter t entrance f the propus	plant there were no securitive guards were situated at eand maintained a constant wat. For each shift there were so at the control gate and for plant. They were armed with 20 guards in all, who were blue uniforms. In an identification card with r of the employee, was necess the plant. There was only on for all plant personnel. The sk both on entering and leaving shops in the installation, or the employee in the installation.	each end of each end of each of the five or six our dispersed th rifles. Clant-employees the photograph eary in order the general ey had to show the plant. Cother than the
• Plant:	l. Within the Four or fi theplant a perimeter. guards, tw around the There were and wore b 2. A propusk, and number to enter t entrance f the propus	plant there were no securitive guards were situated at eand maintained a constant wat. For each shift there were wo at the control gate and for plant. They were armed with 20 guards in all, who were blue uniforms. In an identification card with a rof the employee, was necess the plant. There was only on for all plant personnel. The sk both on entering and leaving shops in the installation, o	each end of the five or six our dispersed in rifles. Lant-employees in order ne general by had to show ang the plant.

SECRET

	25X1
	For each work shift, two firemen were sent to the
	plant from the Rostov fire department. New personnel
	were instructed in fire prevention. No precautions
	were taken against aerial attacks.
	and Personnel.
1.	All the chief engineers of the different divisions
	and the plant director had their offices in Building
	No. 5 which was the head office. The general report
	on work norms was sent to this office. Wages were
	paid every 15 days through the head office. 25X1
	the organization of
	the milling shop, No. 10. There were about 150 per-
	sons working in three shifts. In each shift there
•	were:
	9 forgers
	4 press operators
	l masterant
	2: mechanics
	3. office assistants
	l office manager
!	l shop chief
;	l assistant to the shop chief who was an agricultural
,	machinery technician.
	15 to 20 laborers for the shop services, such as
·	carrying the materials to the shop and then
	taking the parts to Building No. 11 to be painted.
!	
(25X1
3	names of the following officials: 25X
<u> </u>	a. Ivanov (fnu), the plant director
SECRET	

	SEGRET	25 X 1
*** **********************************		
	D. Panchilleyov (line), desired to the process	25 X 1
	and chief machinery technician.	
·		
	c. Chernyshev (fnu), shop chief	
	· · · · · · · · · · · · · · · · · · ·	
	1 	
	d. Kladov (fnu), milling shop master	
,	There were no strikes nor did the workers complain about-	
	the wages or about the work. There was no class of	
	workers with special privileges, There were few absentee	8
	from work.	
	iencies, Improvements, and Promotion of Broduction.	
C <u>Dell</u>	16nc16s, Improvements, and IIomoviou or process	
	1-	25>
	mt and we alternated of materials	
	There was no shortage of materials	
	nor any difficiency in the production. The norm was	
	always réched.	
:	always reached.	

Building No. 4, the warehouse, used for storing gloves, all kinds of cleaning equipment, and oil for greasing machinery.

25X1

6. Building No. 5, the office, but two floors, both used for the plant offices. On the first floor were the offices of personnel in charge of production. On the second floor were located the offices of the director, engineers, technicians,

designers, and planners.

25X1

boring machines. Building No. 6, the tool shop, manufactured/turning-7. tools, die-plates, and drills for use within the plant.

- Building No. 7, the restaurant, built to reduce loss of time and to avoid employees commuting to the city. It was attended by ten women
- Building No. 8, the forging shop, had a metal roof 9. with glass skylights. The shop constructed wheels

for the cultivators. hop, had, a roof conith skylights.

25m x 45m x 6m. Inothe

shop the sheettiron was anapid into ovals and burred for the construction of harrow teeth, known as 'lapa' (claws). Three different kinds of lapy were produced 25X1 and designated numerically 10, 12, & 13.

The lapy were used for 25X1

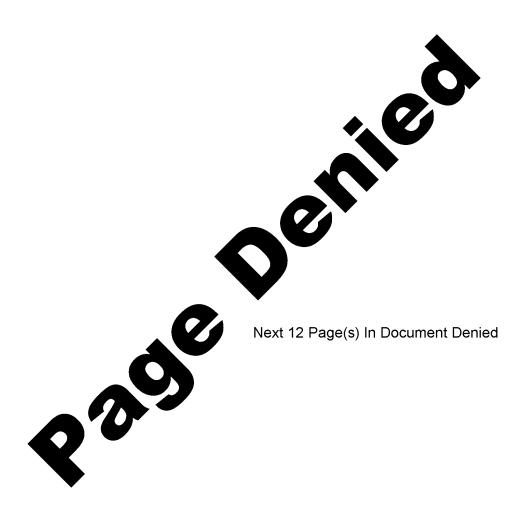
various kinds of cultivation, but were mainly employed in potato fields. The shop had the following machinery:

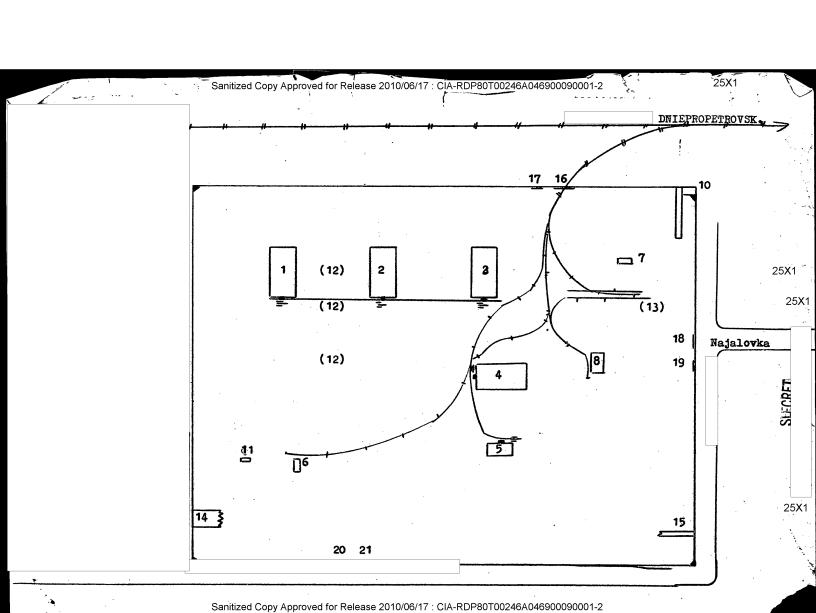
eight large milling machines, the characteristics of

25X1

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SECDET





Sanitized Copy Approved for Release 2010/06/17: CIA-RDP80T00246A046900090001-2 SEL'HE (Dnepropetrovsk) USSR Country 25X1 DNEPROPETROWSK Gas Plant Subject: 25X1 A. Plant Identification% Name of the plant% Dneprovskava Gazovoy Zavod or the Dneprovskaya Gas Plant. It was under the jurisdiction of the Ministry of Metallurgy. Blant Locations The plant is located in the city of Dnepropetrovsk on Belostotskaya Ulitsa (no number given), rayon NIshniy Dneprovaskiy, about 2 kilometers to the north of the Dnepr railroad bridge. C. Description of the Plant: (please see sketch attached to this report). The plant is surrounded by a reinforced concrete wall 3 or 4 meters high topped off with accepted barbed wire .70 meters high. 25X1 the wall has a total length of approximately 25X1 7,000 meters. D. Description of each building and its function: This plant consisted of 5 buildings directed connected with gas production and a series of smaller buildings such as the machine shop, electrical shop , generator plant. garage. first aide station, dining hall and offices. 25X1 ections This is a brick and concrete structure, three story high and with a gabled roof containing many sky lights, measuring $200 \times 100 \times 25$ -30 meters. It did not have a cellar but it did have a number of underground passages which housed the endless chain which fed the furnaces, the plants plumbing and numerous air ducts whichobought for the furnaces. 25X1 the building fire-proof Bechned Her had a metel municum nnn stack 25X1 SUMMER Each beiler had a metal stack about 100 meters high. The plant had good ventilation for in addition to the sky-lights it had many windows. The poorest ventilated floor was the 300.4th

2.

25X1

2. The production of gas:

Tgis plant produced an oderless and colorless gas used in industry and in homes. Some was bottled for domestic use, and coke and coal in unspecialfied proportions were used to make gas.

The machiner Is German and was brought to the Soviet Union from Germany after World War II. The plant itself was built by German POW.

25X1

25X1

The plant equipment consisted of 6 boilers each with a diameter of 20 neters and a height of about 7.5. Coal or coke are burnt in these boilers to produce the gas. (6)

There were six filters (7) which were called "Pilnik" which nurified the gas with sprays of water. An additional six filters were on hand as reserves. The sparys of water removed the solid matter from the gas and also cooled it.

After leaving the filters the gas gees to a machine which does not look like a pump but has the same function. This machine forces the gas under pressure to various points. This machine (with a spare on hand) forces the gas to a railroad switch yard, and to the city.

In addition there are other machines such as the ten pumps for the water towers, 2 systems of endless chains which reed coke or coal to the beilers. One is a vertical system which brings the fuel to the level of the hoppers and the other travels horizontally and brings the fuel directly to the bollers. There are six blowers which give the boilers forced draft. On the 2nd story there are four ventilator blower fans for each boiler. The plant is equipped with blowers set in the window to help circulate the air. All these fans are powered by electric motors especially designed to withstand heat and smoke.

On the 2nd and 3rd floors were control paries with intruments which determined gas density, pressure, temperature, veulme etc. there was also a laboratory (floor on which located was not specified) which was well equipped.

25X1

3. Labor force:

The plant employed about 400 men working 6 shifts of 4 hours per shift.

The workers were equipped with felt boots and heat resisting gloves they were forced to wear a kind of a gas mask.

Safety patrol:

Specially equipped and specially trained patrols looked after the safety of the workers. They wore felt boots and used pants and jackets made out of water-proof, heat resisting material and a gas mask. Several types of masks were used but the most common was one without a face. It had a mouth piece and a kind of a clip that went over the nose. Goggles protected the eyes. Oxygne bottles with a four hour capacity were carried on the back.

25X1

25X1

Plant production:

This plant prodyced 1,200 cubic meters of gas per hour. The gas was almost 100 % pure with about am one half of one to one percent mentally and as.

methane Buildings 2, 3 and 4 had identical functions as building no. 1. Building no. 5 was about half of the size of the others in equipment and labor force.

5. Plant Operations

in war time it convert to other 25X1

only gas but kinds of production

Raw materials used :

The principal raw materials were coke and coal. The plant used about 16 carloads of coal, weighing 60 tons each, and from 3 to 5 carloads of the same capacity of coke. per day: The coal the plant had 25X1 came from the Don valley. a reserve supply of coke and coal sufficient for two days of operations. The daily consumation in terms of tons was 960 tons of coal and between 200 to 300 tons of coke.

The gasoline used by the plant's three trucks and two light staff cars was brought to the plant by a gas truck from the city of Dnepropetrovsk.

Drinking water came from the city's water supply while water used in the plant came from the Dnieper river. Two cylindrical in dimmeter by 10 meters high which were used as water reserves.

In addition there were 3 steel water towers approximately 10 to

15 meters highimater and about 20 meters high. At the foot of
each water tower was a circular pool with a connect of each water tower was a circular pool with a conrete ring rising about 1.5 meters above the level of the ground and with a diameter of approximately 50 yards. The depth of the water in the pool was not specified. Water from the plant was pumped to the towers and from here it flowed into the pool after spzzying against a metal screen. The water was cooled in this manner and used again in the plant. Waste waters returned to the Dnieper river.

Power Supply:

The power plant was located in a 3 story building. It occupied the entire area with the exfeption of some space on the thrid floor which was used as electrical shop..

current was 220 volts AC and that the supply was adequate and there were no power failures.

Beuhad hadrheard that there was a damn on the Dnieper, near the town of Gress 25X1

H. Thanpsortation system: wide gauge

A double track railroad connected the plant with the railroad station of Nizhnaya which taslaceated about 300 meters from the plant. Bizhnaya had direct rail connections with Moscow.

REPRESENTED BEFORE BEFO

Coal was brought to the plant in wooden or in steel cars weighing about 60 tons and hauled by an electric locomotive. The coal was haudedooo transported within the plant by a narrow gauge railroad 25X1

25X1

hauling cars weighing 15 tons. Generally about 12 cars made up the train. There were a number of cranes of unspecialfied capacity connected with the loading and unloading of coal.

The trains which brought the coal to the plant had no special schedule and remained just long enough at the plant to unload their cargo.

REMAKK Streets

The streets of the plant were black topped and operational the year round.

1. Stockpile

w 26

25X1 There was a coal pile which held a dwo days reserve of coel. There was also some acids which were used in the whemical analysis of the gas

The gas generator or bottler was made of steel with a thickness of about 25mm. The boiler has a water jacket approximately 300 mm thick to prevent over heating. The boiler was in the form of a open cylinder covered at the top on which there were nine openings into which steel rods were placed and used to stir the coke in the interior of the boiler. Each rod had a knob in the shap of an artichoke which directed steam downwards. Besides these openings there was a metal stack through which the smoke came when the Bailer was Alighted. The boiler was supported by four, reinforfed ebeeco concrete columns and decorated with a band of glazed bricks.

Under each boiler was a water trap to prevent he escape of gas. There was also a mechanical device consisting of two totaing blades within the boiler which broke up the clinkers and aided the circulation and draft.

About 2 or 3 cubic meters of mindling was necssary to light the booler. This kindling was soaked with about 30 litros of kerosine, which takes the gas to the filter point is opened. (7) This filter is called "Pilnik" and it is here that the gas is washed in sparys of water, removing the solid matter from it such as dust and carbon and at the same time coæling it. From here it passes to a purifying machine called "GAZDUVKA" which has many dials and is very large in size. It removes the undesireable gases and than forces the gas through the outlet system. While the gas passed from the boiler to the filter point it was subjected to a blast of steam, within the gas conduits, which affected the 25X1 oxygen content of the gas. ess outlits

Plants no. 1 , 2 , and 3 had gas lines going to the Railroad25X1 switching house.

Plant no. 4 and 5 had two outlets: one went to the main plant and the other to Dnepropetrovsk.

The gas conduits leaving the plant were about 1.5 meters underground In order to maintain the outgoing gas at an optimum temperature. the gas conduit was wound with a flexible steam pipe.

The gas conduit had an inside diameter of about 1.5 meters and its total length, was about 600 meters. This was the conduit between plant no 4 and 5 and the main plant. The gas conduit going to the city was about 40 to 50 CM in dimater and of unspeciaified length. This main gas line was protected by a concrete and brick covering which help.

5.

25X1

to maintain the proper temperature, protected the steel from humidity and made repairs easier.

Plant security:

In addition to the usual 2 or three guards at each entrance to the plant there were outside guards as well. The plant mandam was well illuminated by floodlights at night. The exterior guards used dogs whose leashes were tied to a cable by a ring, permitting the dogs to cover a large area.

about 50 guards 25X1 made up the security guard.

The workers had the usual "propusk "as identification. The color of this card was changed every year. Besides this pass each worker had a metal disk with a number. Upon entering the plant, this metal disk was left with the guard and the workmen picked up their metal disks upon leaving the plant. Each man entered and left the plant through a prescribed door. Workers could circulate from one section to another but they were kept too busy to do so.

The fire fighting crew consisted about 100 men divided into six shifts. They had 3 fire rucks and 1 hook and ladder truck besides the usual fire fighting equipment such as axes, crow bars etc. The fire fighting crew was assisted by the safety patrol and the workers themselves who were trained to fight fires.

25X1

Personnel

The plant, s personnel consisted of the following:

Plant manager: chemical engineer
Assistant plant manager, chemical engineer
Chief chemical engineer and his staff consisting off:

Assistant chemical engineer
Mechanical engineer
Engineer (function not specified)
Themical engineer, head of the central laboratory
Chief mechanic, head of the maintenance section

Part secretary
Secretary of the Komsomol
Presidente of the Labor Union local
Director of personnel

The first of the file of the

Security chief

Scint 9.

The sections of the plant were organized as follows:

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1 chemical engineer, section head
l assistant ( chemical expert )
1 master worker as chief of each shift
1 chemical engineer, head of the laboratory
1 mechanical expert
1 maintenance expert with a team of six helpers
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1 chief machine fitter l electrician (chief)
l mechanic (chief)

l mechanic 1 instrument specialists (maintenace of instruments and gauges in the laboratories)

1 chief fireman

1 party secretary

21

mehicle entrance

1 secrteray of the Komsomol 1 head of the labor Union Local

7 masen cleaning team 12 people in charge of worker's welfare

Obneoplantoo There were no armed forces personnel in this plant.

plant was working at maximum capacity

they were planning to install more modern equipment. and to build additional buildings.

25X1

25X1

Legend

1.	4 story building in which the 1st Section is located
2.	4 story building in which the 2nd Section is located
2	4 story building in which the 3rd Section is located
٦. ٨	4 story building in which the 4th Section is located
3. 4. 5. 6.	4 story building in which the 5th Section is located
2.	3 story building Power plant and electrical shop
D.	
7. 8. 9.	2 story building
8.	coal pile
9.	4 story building Offices
lo.	1 story building garage
11.	3 story building dining hall
12.	Water cooling towers
13.	Water tanks
14.	Gas outlet (to Railroad switch yard)
15 .	Gas outlet for the city of Dnepropetrovsk.
ī6.	railorad entrance into the plant area
	peronnel entrance
	vehicle entrance
19	entrance for personnel
	entrance for personnel
20.	engrance for bersonner

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The office of lemonic Rervice

was allotted money each year by

the good to repair + maintain

The railroads - The prices of

nickel, give, duralisminim,

silver, lead rcopper are given.